Flu from M/s. Roche. Another 7,00,000 capsules of Oseltamivir Phpsphate (generic version of Tami Flu) have been procured from Hetero Drugs, an Indian Pharmaceutical Company. World Health Organization Supplied 20,000 capsules from its stockpile. For chemoprophylaxis of high' risk personnel and treatment of suspected cases, a total of 65,650 capsules have been utilized during the outbreak of Avian Influenza in the States of Maharashtra, Gujarat and Madhya Pradesh. A balance of 9,54,350 capsules is available.

(c) No, Sir.

(d) World Health Organization (WHO) recommended that countries with the resources to do so should stockpile Oseltamivir as a measure for influenza pandemic preparedness and for preventing/managing human cases of avian influenza [H5NI]. WHO itself is maintaining 30 million capsules of Oseltamivir [Tami Flu] as global stockpile.

After review of the global spread of the Avian Influenza and risk assessment, Government of India took a decision to stockpile one million capsules of Oseltamivir. M/s. Roche have supplied the drug at a special concessional price. Stockpiling of this drug is necessary for chemoprophylaxis of contacts of cases and personnel involved in culling, clean up, rapid response, surveillance, who are all categorized as high risk personnel. The drug is also required for treatment of human cases of Avian Influenza and pandemic influenza. The available stock may have to be utilized if a need arises to contain outbreaks in future. This drug has a self life of 3 to 5 years.

(e) In view of (d) above, question does not arise.

Monitoring of epidemic outbreak

2335. SHRI SANTOSH BAGRODIA:
SHRI GIREESH KUMAR SANGHI:

Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

(a) how does Government define an epidemic;

(b) the details of number of epidemic outbreaks in" last five years alongwith annual fatalities in epidemics, year-wise;

(c) the names of the regions that have been affected by the epidemic outbreak;

(d) the details of the epidemic surveillance network in the country and the steps required to strengthen the network;

(e) what steps are taken to strengthen the public health system to minimize the outbreak of epidemics; and

(f) which are the agencies involved in epidemic surveillance, and control network and how is their performance monitored?

THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND FAMILY WELFARE (SHRIMATI PANABAKA LAKSHMI): (a) An epidemic is defined as the unusual occurrence of a disease, specific health related behaviour or other health-related events in a community or region, clearly in excess of expected occurrence.

(b) and (c) A list of outbreaks investigated by National Institute of Communicable Diseases for the period from 2001-2005 is given in the Statement *(see* below).

(d) to (f) Health is primarily a State subject and the State Governments are required to take necessary action for effective surveillance, early detection and quick response to epidemic outbreaks. The Union Government supplements the efforts of the State Government by providing technical guidance and other inputs.

For effective surveillance and early detection of epidemic outreaks, National Surveillance Programme for Communicable Diseases (NSPCD) was implemented in 101 districts of the country, which has been replaced by a comprehensive programme Integrated Diseases Surveillance Project (I DSP) in November, 2004. IDSP will cover all districts of the country by 2006-07 in a phased manner. The objective of IDSP is to establish a decentralized State based system of surveillance for communicable and non-communicable diseases so that timely and effective public health action can be initiated in response to health challenges in the country. The project is receiving technical assistance from several partners and stakeholders includding National technical institutions like Indian Council of Medical Research (ICMR), National Institute of Communicable Diseases (NICD), Central Bureau of Health Intelligence (CBHI) etc.

Statement

Outbreaks investigated by NICD during 2001

SI. No.	Diagnosis of Outbreak	Area affected	Period of outbreak	Cases	Deaths	Remarks
1	2	3	4	5	6	7
1.	Viral hepatitis E	Super Bazar, New Delhi	May, 2001	60	1	
2.	Investigation of newscheme regarding hospital adi s-sions due to diarrhoea	Faridabad, Haryana	May, 2001	50		No unusual increases in diarrhoea case was noted. 50 cases due to all diseases were admitted
3.	Cholera	Hapur block, Ghaziabad	June, 2001	512	5	
4.	Rapid Health Assessment following floods	Khurda and Puri districts, Orissa	July, 2001	—	—	
5.	Investigation of leptospirosis cases	Flood affected districts of Orissa	July, 2001			Leptospirosis riled out by epidemiological and laboratory investigations
6.	Fever	lTBP, 22 Bn, Jalandhar, Punjab	July-August, 01	126	1	
7.	Viral hepatitis	Saharanpur district, Uttar Pradesh	July-August, 01	52	Nil	
8.	Japanese encephalitis	Gorakhpur and other districts of Uttar Pradesh	June, 01-September, 01	76	17	Data as on 4.9.2001
9.	Cholera	Sarguja district, Chhattisgarh	July-August, 01	1100	52	
10.	Dengue fever	Alwar district Rajasthan	August 2001 and October 200 1	1820	30	Survey data

Outbreaks List 2002

Sl. No.	Diagnosis of outbreak	Area affected	Period of outbreak	Remarks
1	2	3	4	5
1.	Chronic renal failure	South Goa district, Goa	June	Chronic Intersitial nephritis
2.	Acute febrile encephalopathy due to Measles	Warangal district, Andhra Pradesh	July	Lab confirmed
3.	Acute bacillary dysentery, due to Shigella	Refugee Camps, Reang, North Tripura	July	Lab. confirmed
4.	Fever	Madhyapur village, Muzaffarpur district, Bihar	July	Laboratory ruled out Measles, JE. and Malaria
5.	Outbreak of Cholera	Flood affected Nakhola gram of Morigaon district, Assam	August	Lab. confirmed
6.	Dengue fever	Warangal district, Veerannapet village Andhra Pradesh	Aug-September	Lab. confirmed
7.	Dengue fever	Hyderabad city and district of Andhra Pradesh	September,	Lab confirmed
8.	Leptospirosis	Kerala	September	Lab. confirmed
9.	Viral encephalitis	Saharanpur, Muzaffarpur 2003	Nov-December	Lab. confirmed for HSV and Echo-30
1.	Investigation of a rumour of SARS case	Bhopal, Madhya Pradesh	5th April, 2003	No SARS

2.	Epidemiological investigation of an outbreak of Hepatitis E	Bindalpur extension-Jeevan Park, Adarsh Nagar, Delhi	17th April 2003	Hepatitis E
3.	Investigation of a rumour of SARS case	Goa, Goa	17-18th April 2003	SARS
4.	Investigation of feverl episode (influenza)	Tehri district, Uttaranchal	25-28 May 2003	Influenza A
5.	Epidemiological investigation of a focal outbreak of measles	Moolchand slum cluster behind Rajghat power house, Delhi	13th June 2003	Fever of variouis aetiology
6.	Investigation of a fever outbreak in Murshidabad (Influenza)	Murshidabad district, West Bengal	11-15 June 2003	Influenza B
7.	Investigation of dengue/ leptospirosis outbreak	Kerala	1-5 July 2003	Dengue and Leptospirosis, both lab proved
8.	Investigation of Epidemic Leprosy outbreak	Madhya Pradesh	6-7 July, 2003	—
9.	Investigation of Encepthalitis outbreak	Andhra Pradesh	2-6 & 12-14 July 2003	JE
10.	Investigation of suspected cases Encephalitis cases in Nagpur region,	Maharashtra • of Japanese Maharashtra	11-12 July 2003	JE not confirmed by laboratory diagnosis
11.	Investigation fo mystery fever cases (typhus) admitted in the Indira Gandhi Medical College, Shimla	Himachal Pradesh	18-20 September 2003	Typhus

1	2	3	4	5
12.	Epidemiological investigations of malaria in western Rajasthan	Rajasthan	18-19 September 2003	Malaria Falciparum
13.	Epideriological investigation of Dengue cases in NCT of Delhi	Sangam Vihar & Kalkaji Delhi	10th October 2003	Dengue
14.	Assessment of flood situation in Madhya Pradesh by Central health item	Madhya Pradesh	15-18 October 2003	
15.	Investigation of outbreak of viral encephalitis in district of Saharanpur	Saharanpur, Uttar Pradesh	18-20 October 2003	Lab diagnosis inconclusive
16."	Health situation Assessment in flood affected areas of Chhattisgarh	Chhattisgarh State by NICO team	21-24 October 2003	
17.	Epidemilogical investigation of Leptospirosis in Gujarat	Gujarat	28-31st October 2003	
		2004		
1.	Epidemiological investigation of malaria cases in Jaisalmer, district of Rajasthan	Jaisalmer district, Rajasthan	10-14 February 2004	Malaria Falciparum
2.	Epidemiological Assessment of incedence of Kyasanur Forest Disease among vaccine groups in Shimoga district of Karnataka	Shimoga district of Karnataka	28th April-2nd May	No conclusive evidence of infection among immunized found

3.	investigation of Measles Epidemic in Shivpuri and Bhind district of Madhya Pradesh	Shivpuri and Behind District of Madhya Pradesh	6-8 May	Lab proved Measles
4.	An outbreak of Acute Diarrhoeal Diseases investigated in the Districts of Morena and Bhind in Madhya Pradesh.	Districts of Morena and Bhind in Madhya Pradesh	24-27 May, 2004	Cholera, confirmed by laboratory investigations
5.	Four teams of epidemiological and microbiologist investigated travel related legionnaire's disease at Agra, Delhi, Goa and Jaipur.	Agra, Delhi, Goa and Jaipur	22-26 June, 2004	No evidence of Legionnaires confirmed
6.	DEC related death investigation at Gulbarga and Bidarbid in Karnataka	Gulbarga and Bidarbid in Karnataka	5th June, 2004	Deaths could not be related to MDA of DEC
7.	Outbreak investigation of child death with fever and convulsion in Vadodara Gujarat.	Vododara, Gujarat	3-6 July, 2004	
8.	Focal outbreak of Hepatitis at Tughlak Road, New Delhi.	New Delhi	12th July, 2004	Lab confirmed Hepatitis E
9.	Flood assessment of Bihar	Bihar	14-17 July, 2004	
10.	Flood assessment of Assam.	14-17 July, 2004		
11.	Focal outbreak of Hepatitis E at Kerala House, New Delhi.	New Delhi	15th July, 2004	Laboratory confirmed Hepatitis E.
12.	Flood assessment of Gujarat	Gujarat	9-12 August, 2004	

1	2	3	4	5
13.	Epidemiological investigation of eptospirosis and dengue in Kerala	Kerala 2004	10-13 August, Leptospirosis	Laboratory confirmed
14.	Epidemiological investigation of drinking water quality with speci I difference to flourisis.	Chennai	11-13 August, 2004	High flourosis content in drinking water samples
15.	Situation Assessment of Kala Zar in Bihar.	Bihar	11-13August, 2004	
16.	Epidemiological investigation of Japanese Encephalitis situation in Gorakhpur division of Uttar Pradesh	Gorakhpur division of Uttar Pradesh	28th-31 August	Laboratory evidence of JE
17.	Epidemiological investigation of Leptospirosis in Gujarat State	Gujarat	6-9 September 2004	Laboratory evidence of Leptospirosis
18.	Epidemiological investigation of cerebral malaria cases in Jharkhand State	Godda district of Jharkhand State	18-21 September 2004	Cerebral Malaria-P falciparum laboratory proved
19.	Epidemiological investigation of Acute Febrile illness in Dangud village, Uttaranchal	Dangud and adjoining villages of UA	20-22 October 2004, & 27-28 October 2004	Plague 8 cases 3 deaths
20.	Epidemiological investigation of Acute Encephalities cases in Baghpat district of Uttar Pradesh	Baghpat district of UP	October, 2004	Laboratory investigation did not confirm JE
21.	Epidemiological investigation of Acute Encephalitis cases in Saharanpur, UP	Saharanpur, UP	October, 2004	Laboratory investigation did not confirm JE

22.	Epidemiological investigation of Acute Viral Encephalitis cases in Kamal District of Haryana	Kamal District of Haryana	28-29 October 2004	Laboratory investigation did not confirm JE
23.	Health Situation Assessment of the damage caused by Earthquake/ Tsunami in Andaman and Nicobar Islands	Andaman & Nicobar Islands	27 December 2004 to 3 January 2005	
24.	Health Situation Assessment of Tsunami Affected Areas of Chennai and Pondicherry	Pondicherry	26 December 2004-10 January 2005	
25.	Health Situation Assessment of Tsunami Affected areas of Tamil Nadu	Chennai and Nagapattinam	26 December 2004 to 4 January 2005	
26.	Health Situation Assessment of Tsunami Affected areas of Andhra Pradesh	Prakasam and Ongole districts	28 December 2004 to 3 January 2005	
		2005		
1.	Health Situation Assessment of Tsunami affected areas of Andhra Pradesh	Guntur, East Godavari, West Godavari and Krishna district	3-11 January 2005	
2.	Health Situation Assessment of Car Nicobar and Teressa Islands of Andaman & Nicobar	Car Nicobar and Teressa islands	4 January-20 January 2005	
3.	Surveillance of Epidemic Prone Diseases in Andaman & Nicobar Islands following Earthquake and Tsunami	Port Blair and the islands of Hut Bay/ Little Andamans; Car Nicobar; Terssa; Katchall; Nancowire/Camorta and Camphel Bay/Great Nicobar	17 January-22 July 2005	

1	2	3	4	5
4.	Investigation of hepatitis outbreak in Ahmedabad, Gujarat	Ahmedabad, Gujarat	6-8 April 2005	Hepatitis E
5.	Investigation of hepatitis outbreak in Hyderabad, Andhra Pradesh	Hyderabad, Andhra Pradesh	13-15 April 2005	Hepatitis E
6.	Investigation of Meningococcemia in different parts of Delhi	Delhi	3 May-1 August 2005	Meningococcal Meningitis
7.	Investigation of Meningococcemia in Uttar Pradesh	Gautam Buddh Nagar, Ghaziabad, Lucknow	11-12 May 2005	Meningococcal Meningitis
8.	Investigation of Meningoccemia in Haryana	Gurgaon and Chandigarh, Haryana	11-13 May 2005	Meningococcal Meningitis
9.	Investigation of Meningococcal meningitis in Kapasheda, Delhi	Kapasheda, Delhi	31 May 2005	Meningococcal Meningitis
10.	Investigation of Anthrax outbreak in Karaput district of Orissa	Koraput, Orissa	17-18 June 2005	Anthrax Lab proved
11.	Investigation of Acute Encephalitis in Muzaffarpur, Bihar	Muzaffarpur, Bihar	18-22 June 2005	Lab diagnosis inconclusive
12.	Health situation assessment of flood affected districts of Gujarat	Kheda, Anand, Vadodara, Surat, Navsari	6-9 July 2005	
13.	Health Situation Assessment of Flood Affected Districts of Gujarat	Rajkot, Amreli, Bhavnagar	6-13 July 2005	

14.	Health situation assessment of flood affected districts of Gujarat	Ahmedabad, Surenderanagar	7-13 July 2005	
15.	Health situation assessment of flood affected districts of Madhya Pradesh	Panna, Katni, Sagar & Damoh M P	8-11 July 2005	
16.	Health situation assessment of flood affected areas of Maharashtra	Kalyan Dombivali, Mumbai in Maharashtra	10-22 August 2005	Lab proved outbreak of Leptospirosis
17.	Investigation of Suspected Acute Encephalitis Outbreak in Gorakhpur District of Uttar Pradesh	Gorakhpur, U P	18-21 August 2005	Lab proved JE
18.	Central team established at Gorakhpur to assist control of J E Outbreak	Gorakhpur, U P	4 September 2005-8 November 2005	
19.	Central Team established at Rae Barelli to assist control of JE Outbreak	Rae Bareilly, U P	4 September 2005-7 October 2005	
20.	Health Situation Assessment of Cyclone affected districts of Andhra Pradesh	Vishakhapatnam, Vijianagaram, East Godavari and Sri Kakulam in AP	27 September-1 October 2005	
21.	Investigation of an outbreak of Leptospirosis in Surat and adjoining districts of Gujarat	Surat, Gujarat	4-7 October 2005	Leptospirosis

1	2	3	4	5
22.	Investigation of outbreak of Acute Encephalitis in Saharanpur, Uttar Pradesh	Saharanpur, UP	7-10 October 2005	Lab diagnosis JE
23.	Health situation assessment of earthquake affected areas of Tangdhar district Kupwara and Uri in J & K	Tangdhar, Kupwara, Uri in J&K	13-22 October 2005	
24.	Investigation of Acute Encephalitis outbreaks in Gorakhpur and Saharanpur in Uttar Pradesh	Saharanpur & Gorakhpur, UP	14 November 2005-18 November 2005	
25.	Investigation of Fever cases in Mukukchong district of Nagaland	Mukukchong, Nagaland	22 November-26 November 2005	Scrub typhus